

## **Publications: in press, or submitted**

1. Anthony R. Geonnotti, S. Gnanakaran, Marcus G. Daniels, Tanmoy Bhattacharya, Alan S. Lapedes, Bette Korber, and David C. Montefiori. Computationally-Identified Mutations Suspected to Cause gp120 Charge Inversion and gp41-Mediated Allosteric Effects Impact HIV-1 Susceptibility to Neutralization. Responding to review, *J. Virol.*
2. Hua-Xin Liao, Chun-Yen Tsao, S. Munir Alam, Mark Muldoon, Sallie Permar, Ben-Jiang Ma, Sampa Santra, Xiaozhi Lu, Laura L. Sutherland, Richard M. Scearce, Cindy Bowman, Robert Parks, Shi-Mao Xia, Nathan Vandergrift, Andrew Foulger, Eden Parreno Go, Heather Desaire, David C. Montefiori, Beatrice H. Hahn, George Shaw, Ron Swanstrom, Jeffrey Anderson, Susan Barnett, Norman L. Letvin, Feng Gao, Barton Haynes and Bette T.M. Korber. Antigenicity and Immunogenicity of Transmitted/Founder, Consensus and Chronic Envelope Glycoproteins of Human Immunodeficiency Virus Type 1. (Responding to reviews, *J. Virol.*)
3. Michael K.P. Liu, Natalie Hawkins, Adam Ritchie, Vitaly Ganusov, Victoria Whale, Simon Brackenridge, Hui Li, Jeff Pavelick, Fangping Cai, Melissa Rose-Abrahams, Peter Hraber, Catherine Riou, Clive Gray, Guido Ferrari, Rachel Tanner, CHAVI Core B, Myron Cohen, Barton Haynes, Persephone Borrow, Alan S. Perelson, George M. Shaw, Beatrice H. Hahn, Carolyn Williamson, Bette T. Korber, Feng Gao, Steve Self, Andrew McMichael, Nilu Goonetilleke. T cell immunodominance, response breadth and epitope entropy determine virus escape rates in acute HIV-1 infection. (in press, *JEM*, 2012)
4. Nicos Karasavvas, Erik Billings, Mangala Rao, Constance Williams, Susan Zolla-Pazner, Robert Bailer, Richard Koup, Sirinan Madnote, Duangnapa Arworn, Xiaoying Shen, Georgia Tomaras, Jeffrey Currier, Mike Jiang, Craig Magaret, Charla Andrews, Raphael Gottardo, Peter Gilbert, Timothy Cardozo, Supachai Rerks-Ngarm, Sorachai Nitayaphan, Punnee Pitisuttithum, Jaranit Kaewkungwal, Robert Paris, Kelli Greene, Hongmei Gao, Sanjay Gurunathan, Jim Tartaglia, Faruk Sinangil, Bette Korber, David Montefiori, John Mascola, Merlin Robb, Barton Haynes, Viseth Ngauy, Nelson Michael, Jerome Kim, and Mark de Souza. The Thai phase III HIV-1 vaccine trial (RV144) regimen induces antibodies that target the crown of the V2 loop of gp120. *PloS One*, submitted, Oct 2011)
5. Karina Yusim, Rebecca Dilan, Erica Borducchi, Kelly Stanley, Elena Giorgi, Will Fischer, James Theiler, Joe Marcotrigiano, Bette Korber, and Dan Barouch. Hepatitis C genotype 1 mosaic vaccines are immunogenic in mice and induce higher T cell responses than natural strains. In press in *Clinical and Vaccine Immunology*, Nov 2012.

## Publications

6. Fischer W, Apetrei C, Santiago ML, Li Y, Gautam R, Pandrea I, Shaw GM, Hahn BH, Letvin NL, Nabel GJ, Korber BT. A Distinct Evolutionary Pressures Underlie Diversity in Simian and Human Immunodeficiency Virus Lineages. *J Virol.* 2012 Dec;86(24):13217-31. [PMID 23055550](#). Note: This article was Faculty of 1000 Recommended as being of special significance to our field, see article review by Cynthia Derdyn and Eric Hunter: <http://f1000.com/prime/717963034>.
7. Sriram Swamainarayan. Roadrunner: the dawn of accelerated computing. Chapter in: Contemporary HPC Architectures. In press. (B.Korber was one of 37 contributers to this chapter).
8. Karasavvas N, Billings E, Rao M, Williams C, Zolla-Pazner S, Bailer RT, Koup RA, Madnote S, Arworn D, Shen X, Tomaras GD, Currier JR, Jiang M, Magaret C, Andrews C, Gottardo R, Gilbert P, Cardozo TJ, Rerks-Ngarm S, Nitayaphan S, Pitituttithum P, Kaewkungwal J, Paris R, Greene K, Gao H, Gurunathan S, Tartaglia J, Sinangil F, Korber BT, Montefiori DC, Mascola JR, Robb ML, Haynes BF, Ngauy V, Michael NL, Kim JH, de Souza For The Moph Taveg Collaboration MS. The Thai Phase III HIV Type 1 Vaccine Trial (RV144) Regimen Induces Antibodies That Target Conserved Regions Within the V2 Loop of gp120. *AIDS Res Hum Retroviruses.* 2012 Nov;28(11):1444-57 [PMID:23035746](#)
9. Ribeiro RM, Li H, Wang S, Stoddard MB, Learn GH, Korber BT, Bhattacharya T, Guedj J, Parrish EH, Hahn BH, Shaw GM, Perelson AS. Quantifying the diversification of hepatitis C virus (HCV) during primary infection: estimates of the in vivo mutation rate. *PLoS Pathog.* 2012 Aug;8(8):e1002881.10.1371 [PMID:22927817](#)
10. Li H, Stoddard MB, Wang S, Blair LM, Giorgi EE, Parrish EH, Learn GH, Hraber P, Goepfert PA, Saag MS, Denny TN, Haynes BF, Hahn BH, Ribeiro RM, Perelson AS, Korber BT, Bhattacharya T, Shaw GM. Elucidation of hepatitis C virus transmission and early diversification by single genome sequencing. *PLoS Pathog.* 2012 PLoS Pathog. 2012 Aug;8(8):e1002880. [PMID: 22927816](#)
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